

Science Toolkit: Grade 8 Objective 1.A.1.h

Student Handout: Science: Grade 8 Objective 1.A.1.h

Standard 1.0 Skills and Processes

Topic A. Constructing Knowledge

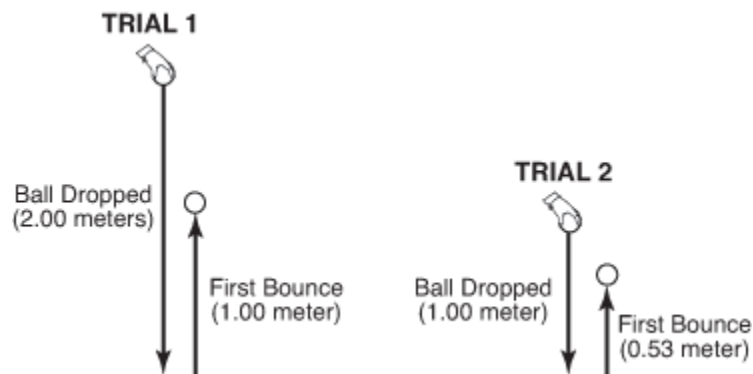
Indicator 1. Design, analyze, or carry out simple investigations and formulate appropriate conclusions based on data obtained or provided.

Objective h. Use mathematics to interpret and communicate data.

Selected Response (SR) Item

Question

Students dropped a tennis ball from heights of 2.00 meters and 1.00 meter. The students compared the heights of the ball after the first bounce of each drop.



Students recorded the findings from Trial 1 and Trial 2 in the data table below.

TENNIS BALL HEIGHTS

Drop Heights (meters)	First Bounce Height (meters)
2.00	1.00
1.00	0.53

Which mathematical operation can be used to calculate the ratio between the Drop Height (DH) and the First Bounce Height (BH)?

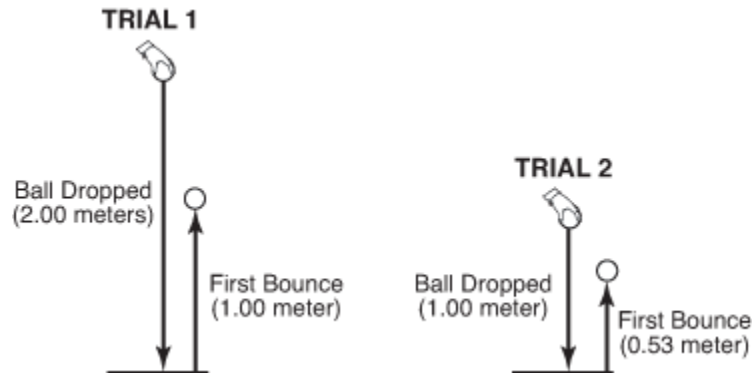
- A. $DH \div BH$
- B. $DH - BH$
- C. $BH \times DH$
- D. $DH + BH$

Correct Answer

- A. $DH \div BH$

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